

Claims

- Sub  
a1*
1. A protease-related protein, the protein comprising the amino acid sequence of fig. 1 or an amino acid sequence differing therefrom by one or more amino acids.
  2. A DNA coding for a protein according to claim 1, wherein the DNA comprises:
    - (a) the DNA of fig. 1 or a DNA differing therefrom by one or more base pairs,
    - (b) a DNA hybridizing with the DNA of (a), or
    - (c) a DNA related to the DNA of (a) or (b) via the degenerated genetic code.
  3. An expression plasmid comprising the DNA according to claim 2.
  4. A transformant containing the expression plasmid according to claim 3.
  5. A process for the preparation of the protein according to claim 1, comprising the cultivation of the transformant according to claim 4 under suitable conditions.
  6. Antibodies directed against the protein according to claim 1.
  7. Use of the protein according to claim 1 and the DNA according to claim 2 as well as the antibody according to claim 6 for detecting the keratinization of hair.
  8. Use of the protein according to claim 1 for the negative regulation of the keratinization of hair.

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9. Use according to claim 8, wherein the protein is present as such or in the form of a nucleic acid expressing it.
10. Use according to claim 8 or 9, wherein substances are also used which inhibit the proteins Ha3 and/or CK15.
11. Use according to claim 10, wherein the substances are antibodies directed against Ha3 and CK15, respectively, and/or anti-sense oligonucleotides, all of which inhibit the expression of the nucleic acids encoding these proteins.
12. Use of the protein according to claim 1 for the positive regulation of the certification of hair.
13. Use according to claim 12, wherein the protein is present in the form of a substance inhibiting it.
14. Use according to claim 13, wherein the substance is an antibody according to claim 6 and/or an anti-sense oligonucleotide which inhibits the expression of the nucleic acid encoding the protein.
15. Use according to any one of claims 12 to 14, wherein the proteins Ha3 and/or CK15 are also present as such or in the form of nucleic acids expressing them.

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